

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

65304-0161

SERIAL NO.

09/779,149

Information Disclosure  
Statement by Applicant

(Use several sheets if necessary)

APPLICANT

Hajduk et al.

FILING DATE

02/08/2001

GROUP

## U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
<i>TH</i>	5,821,407	10/13/1998	Sekiguchi et al.	73	54.28	03/29/1996
	5,776,359	07/07/1998	Schultz et al.	252	62.51	05/08/1995
	5,764,068	06/09/1998	Katz et al.	324	727	07/25/1996
	5,728,532	03/17/1998	Ackley	435	6	05/31/1996
	5,700,953	12/23/1997	Hlady et al.	73	105	04/03/1996
	5,699,159	12/16/1997	Mason	356	351	10/29/1996
	5,626,779	05/06/1997	Okada	219	201	05/31/1994
	5,610,325	03/11/1997	Rajagopal et al.	73	54.39	06/05/1995
	5,305,633	04/26/1994	Weissenbacher et al.	73	82	12/07/1990
	5,303,030	04/12/1994	Abraham et al.	356	345	12/02/1991
	5,280,717	01/25/1994	Hoseney et al.	73	54.22	10/14/1992
	5,271,266	12/21/1993	Eschbach	73	54.33	12/06/1991
	5,236,998	08/17/1993	Lundeen et al.	525	52	06/11/1992
	5,193,383	03/16/1993	Burnham et al.	73	105	07/11/1990
	5,142,900	09/01/1992	Duke	73	54.39	10/17/1990
	5,115,669	05/26/1992	Fuller et al.	73	54.39	10/05/1990
	5,008,081	04/16/1991	Blau et al.	422	64	10/11/1988
<i>TH</i>	4,932,270	06/12/1990	Lurie et al.	73	862.33	03/21/1989

## FOREIGN PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Country	Class	Sub Class	Translation YES NO
<i>TH</i>	WO 96/11878	4/25/1996	Schultz et al.			

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

<i>TH</i>			"Micro-Indentation Relaxation Measurements in Polymer Thin Films," D.M. Shinozaki and Y. Lu, <u>J. Electronic Materials</u> , Vol. 26, No. 7, pp. 852-858, 1997.
<i>I</i>			"Ultramicroindentation Apparatus for the Mechanical Characterization of Thin Films," P.E. Wierenga and A.J.J. Franken, <u>J. Appl. Phys.</u> , 55 (12), pp. 4244-4247, 15 June 1984.
<i>TH</i>			"Microhardness Studies of Polymers and Their Transitions," F.J. Balta Calleja, <u>TRIP</u> , Vol. 2, No. 12, pp. 419-425, December 1994.

Examiner

*James Jones*

Date Considered

*5/1/97*

**Examiner:** Initial if citation considered, whether or not citation is in conformance with APEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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APPLICANT  
Hajduk et al.FILING DATE  
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GROUP

## U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
JA	4,893,500	01/16/1990	Fink-Jensen	73	60	09/19/1988
	4,789,236	12/06/1988	Hodor et al.	356	33	08/07/1986
	4,749,854	06/07/1988	Martens	250	225	03/05/1987
	4,740,078	04/26/1988	Daendliker et al.	356	35.5	01/14/1985
	4,680,958	07/21/1987	Ruelle et al.	73	56	07/17/1986
	4,602,501	07/29/1986	Hirata	73	54	12/06/1984
	4,570,478	02/18/1986	Soong	73	60	04/08/1985
	4,567,774	02/04/1986	Manahan et al.	73	826	02/28/1983
	4,447,125	05/08/1984	Lazay et al.	350	96.30	04/01/1982
	4,229,979	10/28/1980	Greenwood	73	704	05/29/1979
	3,933,032	01/20/1976	Tschoegl	73	67.1	09/01/1971
	3,849,874	11/26/1974	Jeffers	29	590	11/01/1973
	3,818,751	06/25/1974	Karper et al.	73	15.6	05/23/1972
	3,805,598	04/23/1974	Corcoran	73	81	12/06/1971
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## FOREIGN PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Country	Class	Sub Class	Translation YES NO

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

JA			"Evaluation of Young's Modulus of Polymers from Knoop Microindentation Tests," E. Amitay-Sadovsky and H.D. Wagner, <u>POLYMER</u> , Vol. 39, No. 11, pp. 2387-2390, 1998.
9			"Standard Test Method for Rubber Property - International Hardness," ASTM, D 1415-88, February 1989.
1			"DMA 2980 Dynamic Mechanical Analyzer," <a href="http://www.tainst.com/dma2.html">http://www.tainst.com/dma2.html</a> , 12/29/00.
1			"Introducing the NEW DMTA VI," <a href="http://www.rheometricsscintific.com/dmtaV.htm">http://www.rheometricsscintific.com/dmtaV.htm</a> , 12/29/00
JA			Robert H. Lacombe and Jeremy Greenblatt, "Mechanical Properties of Thin Polyimide Films," Proc. Tech. Conf. Polyimides (First) 1982, published in <u>Polyimides: Synth., Charact., Appl.</u> , pp 647-668, 1984

Examiner

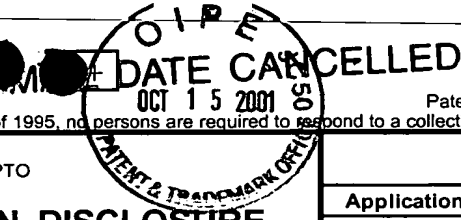
*John F. Smith*

Date Considered

*5/1/03*

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

## Complete if Known

Application Number	09/779,149
Filing Date	02/08/2001
First Named Inventor	Damian Hajduk
Group Art Unit	2812
Examiner Name	
Attorney Docket Number	1012-123D2

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
M		4,699,000		Lashmore et al.	10/13/1987	
		4,899,581		Allen et al.	02/13/1990	
		5,092,179		Ferguson	03/03/1992	
		5,437,192		Kawamoto et al.	08/01/1995	
		5,438,863		Johnson	08/08/1995	
		5,817,947		Bergerus	10/06/1998	
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		5,999,887		Giannakopoulos et al.	12/07/1999	
		6,033,913		Morozov et al.	03/07/2000	
		6,050,138		Lynch et al.	04/18/2000	
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		6,092,414		Newman	07/25/2000	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

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Signature

*Tom Fried*

Date

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5/11/03

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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STATEMENT BY APPLICANT**

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Sheet 125 of 3

**Complete if Known**

Application Number	09/779,149
Filing Date	02/08/2001
First Named Inventor	Damian Hajduk
Group Art Unit	2812
Examiner Name	
Attorney Docket Number	1012-123D2 (99-90DIV2)

**U.S. PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Patent Document Number <sup>2</sup>	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
191		1,870,412		Kennedy	08/09/1932	
		3,071,961		Heigl et al.	01/08/1963	
		3,713,328		Aritomi	01/30/1973	
		3,895,513		Richardson	07/22/1975	
		3,908,441		Virloget	09/30/1975	
		4,517,830		Gunn et al.	05/21/1985	
		4,599,219		Cooper et al.	07/08/1986	
		4,829,837		Telfer	05/16/1989	
		5,272,912		Katsuzaki	12/28/1993	
		5,452,619		Kawanabe et al.	09/26/1995	
		5,756,883		Forbes	05/26/1998	
		3,798,960		Glass	03/26/1974	
		4,605,589		Orphanides	08/12/1986	
		4,685,328		Huebner et al.	08/11/1987	
		4,715,007		Fujita et al.	12/22/1987	
		4,793,174		Yau	12/27/1988	
		4,899,575		Chu et al.	02/13/1990	
		4,975,320		Goldstein et al.	12/04/1990	
		5,269,190		Kramer et al.	12/14/1993	
		5,398,885		Andersson et al.	03/21/1995	

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			JP 02297040 A		Akaha	12/1990		
			WO 00/17413		Symyx Technologies, Inc.	03/30/2000		
			WO 00/23921		Symyx Technologies, Inc.	04/27/2000		
			WO 00/36410		Symyx Technologies, Inc.	06/22/2000		
			WO 00/40331		Symyx Technologies, Inc.	07/13/2000		
			WO 00/51720		Symyx Technologies, Inc.	09/08/2000		
			WO 00/67086		Symyx Technologies, Inc.	11/09/2000		
			WO 96/11878		Reg. of the Univ. of California	04/25/1996		
			WO 01/79949 A2		Symyx Technologies, Inc.	10/25/2001		
			WO 98/15501		Symyx Technologies, Inc.	04/16/1998		

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Application Number	09/779,149
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First Named Inventor	Damian Hajduk
Group Art Unit	2812
Examiner Name	
Attorney Docket Number	1012-123D2 (99-90DIV2)

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Sheet 1 of 0

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## **OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials <sup>2</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
[Signature]		U.S. Patent Application Serial No. 09/939,404 entitled "High Throughput Mechanical Property and Bulge Testing of Material Libraries," (D. Hajduk et al.) filed on August 24, 2001.	
		U.S. Patent Application Serial No. 09/939,252 entitled "High Throughput Mechanical Rapid Serial Property Testing of Material Libraries," (P. Manksy) filed on August 24, 2001.	
		U.S. Patent Application Serial No. 09/939,139 entitled "High Throughput Fabric Handle Screening," (M. Kossuth et al.) filed on August 24, 2001.	
		U.S. Patent Application Serial No. 09/939,149 entitled "High Throughput Rheological Testing Of Materials" (Paul Manksy et al.) filed on August 24, 2001.	
		U.S. Patent Application Serial No. 09/939,263 entitled "High Throughput Mechanical Property Testing of Materials Libraries Using Capacitance," (D. Hajduk et al.) filed on August 24, 2001.	
		U.S. Patent Application Serial No. 09/938,994 entitled "High Throughput Mechanical Property Testing of Materials Libraries Using a Piezoelectric," (D. Hajduk) filed on August 24, 2001.	
		The family of applications for U.S. Patent Application Serial No. 09/174,856 titled "Graphic Design of Combinatorial Material Libraries" (Lacy, et al.) filed on October 19, 1998.	
		U.S. Application Serial No. 09/578,997 entitled "High Throughput Viscometer and Method of Using Same" filed May 25, 2000	
		ODIAN, Principles of Polymerization, 3rd Ed., John Wiley & Sons, Inc. (1991)	
		TIMOSHENKO, S., Theory of Plates and Shells, McGraw-Hill, New York 1940	
[Signature]		European Search Report dated December 10, 2001	

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**INFORMATION DISCLOSURE  
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Sheet

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Application Number	09/779,149
Filing Date	02/08/2001
First Named Inventor	Damian Hajduk
Group Art Unit	2812
Examiner Name	
Attorney Docket Number	1012-123D2 (99-90DIV2)

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<i>MR</i>		U.S. Application Serial No. 09/420,334 entitled "Graphic Design of Combinatorial Material Libraries" (Lacy, et al.) filed on October 18, 1999
		U.S. Patent Application Serial No. 09/305,830 titled "Synthesizing Combinatorial Libraries of Materials" (Rust, et al.) filed on May 5, 1999
		U.S. Application Serial No. 09/550,549 entitled "Automated Process Control And Data Management System And Methods" (Crevier, et al.) filed on April 14, 2000
		U.S. Application Serial No. 09/755,623 entitled "Laboratory Database System and Methods For Combinatorial Materials Research" (Dorsett, Jr., et al.) filed on January 5, 2001.
		The family of applications for U.S. Application Serial No. 09/227,558 entitled, "Apparatus and Method of Research for Creating and Testing Novel Catalysts, Reactions and Polymers" (Turner et al.) filed January 8, 1999
		U.S. Application Serial No. 09/235,368 entitled "Polymerization Method From the Combinatorial Synthesis and Analysis of Organometallic Compounds and Catalysts" (Weinberg et al.) filed on January 21, 1999
		U.S. Provisional Application Serial No. 60/122,704 entitled "Controlled, Stable Free Radical Emulsion and Water-Based Polymerizations" (Klaerner et al.) filed on March 9, 1999
		The family of applications for U.S. Application Serial No. 09/156,827 entitled "Formation of Combinatorial Arrays of Materials Using Solution-Based Methodologies" (Giaquinta et al.) filed September 18, 1998
		The family of applications for U.S. Application Serial No. 09/567,598 entitled "Polymer Libraries on a Substrate, Method for Forming Polymer Libraries on a Substrate and Characterization Methods with Same" (Boussie et al.) filed May 10, 2000
<i>MR</i>		U.S. Application Serial No. 09/579,338 entitled "Rheo-Optical Indexer and Method of Screening and Characterizing Arrays of Materials" (Carlson et al.) filed on Mar 25, 2000

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Examiner  
Signature*James Smith*

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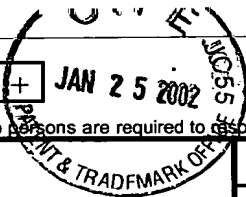
*5/1/03*

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Sheet 1 of 0

## **Complete if Known**

Application Number	09/779,149
Filing Date	02/08/2001
First Named Inventor	Damian A. Hajduk
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<i>TH</i>		BOWLT, C., "A Simple Capillary Viscometer" Physics Education, March 1975, vol. 10, no. 2, pp. 102-103	
		YOUNG, W.C., Roark's Formulas for Stress and Stain, 1989	
		ALI, S.I. and Shahida Begum, "Fabric Softeners and Softness Perception", Ergonomics, v.37, No. 5, pp. 801-806 (1994).	
		OSTERBERG, Peter M. and Stephen D. Senturia, "M-TEST: A Test Chip for MEMS Material Property Measurement Using Electrostatically Actuated Test Structures," Journal of Microelectromechanical Systmes, Vol. 6, No. 2, June 1997	
		KIM, J.O. and B. Lewis Slaten, "Objective Assessment of Fabric Handle in Fabrics Treated With Flame Retardants," Journal of Testing and Evaluation, JTEVA, Vol. 24, No. 4, July 1996, pp. 223-228.	
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		PAN, NING and K.C. Yen, "Physical Interpretations of Curves Obtained Through the Fabric Extraction Process for Handle Measurement," Textile Research Journal 62(5), pp. 279-290 (1992).	
		"Handle-O-Meter", Thwing-Albert Instrument Company, Philadelphia, PA.	
<i>TH</i>		GROVER, G. et al., "A Screening Technique for Fabric Handle", J. Text. Inst., 1993, 84 No. J. Textile Institute, pp. 486-494.	

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Examiner Signature

*Tom Fournier*

Date Considered

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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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